PTO-1390 (Rev. 02-2005) Approved for use through 03/31/2007. OMB 0651-0021

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## TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)**

ATTORNEY'S DOCKET NUMBER 2936-0242PUS1

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORT DATE CLAIMED 22 November 2002 PCT/JP2003/014268 10 November 2003 ION ELUTION UNIT AND APPLIANCE INCORPORATING AN ION ELUTION UNIT TITLE OF INVENTION APPLICANT(S) FOR DO/EO/US Hirokazu OOE; Yutaka TATEYAMA and Toshihiro KAMII Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must 3. include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 4. l A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) 5. | x is attached hereto (required only if not communicated by the International Bureau). a. has been communicated by the International Bureau. b. is not required, as the application was filed in the United States Receiving Office (RO/US). C. An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). х is attached hereto. a. x has been previously submitted under 35 U.S.C. 154(d)(4). b. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) х a. are attached hereto (required only if not communicated by the International Bureau). b. have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. C. d. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. 13. х x An Application Data Sheet under 37 CFR 1.76. 14. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 19. 20. Other items or information: PCT/ISA/210; PCT/IPEA/409 & Seventeen (17) Sheets of Formal Drawings

## JC06 Rec'd PCT/PTO 19 MAY 2005

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| U.S. APPLICATION TO JUNE 137 7 0 INTERNATIONAL APPLICATION NO. PCT/JP2003/014268                                                                                                |                                                                               |  |                                               |         |                                           |             | ATTORNEY'S DOCKET NUMBER |               |                         |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|-----------------------------------------------|---------|-------------------------------------------|-------------|--------------------------|---------------|-------------------------|--------------|
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          | 2936-0242PUS1 |                         |              |
| The following fees have been submitted                                                                                                                                          |                                                                               |  |                                               |         |                                           |             |                          |               | CALCULATIONS            | PTO USE ONLY |
| 21. x Basic national fee\$300                                                                                                                                                   |                                                                               |  |                                               |         |                                           |             |                          | \$            | 300.00                  |              |
| 22. x Examination fee                                                                                                                                                           |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)\$100                                               |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| All other situations \$200                                                                                                                                                      |                                                                               |  |                                               |         |                                           |             |                          | \$            | 200.00                  |              |
| 23. x Search fee                                                                                                                                                                |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the                                                                                           |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| USPTO as an International Searching Authority\$100                                                                                                                              |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| International Search Report prepared and provided to the Office \$400  All other situations \$500                                                                               |                                                                               |  |                                               |         |                                           |             |                          | \$            | 500.00                  |              |
| TOTAL OF 21, 22 and 23 =                                                                                                                                                        |                                                                               |  |                                               |         |                                           |             |                          |               | 1,000.00                |              |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| \$250 for each additional 50 sheets of paper or fraction thereof.                                                                                                               |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| Total Sheets Extra sheets                                                                                                                                                       |                                                                               |  | Number of each additional 50 or fraction RATE |         |                                           |             |                          | 1             |                         |              |
| 77 - 100 =                                                                                                                                                                      | thereof                                                                       |  |                                               | or (rou | of (round up to a whole number x \$250.00 |             |                          | ┨             |                         |              |
|                                                                                                                                                                                 | narge of \$130.00 for furnishing the oath or declaration later than 30 months |  |                                               |         |                                           |             | -                        | 120.00        |                         |              |
| from the earliest claimed priority date (37 CFR 1.492 (e)).                                                                                                                     |                                                                               |  |                                               |         |                                           |             | \$                       | 130.00        | L                       |              |
| CLAIMS NUMBER FIL                                                                                                                                                               |                                                                               |  | <del></del>                                   |         |                                           |             | RATE                     | \$            | 150.00                  |              |
|                                                                                                                                                                                 | Total claims 23 - 20 =                                                        |  |                                               | 3       |                                           | <del></del> | x 50.00                  |               | 150.00                  |              |
| Independent claims 2 - 3 = x                                                                                                                                                    |                                                                               |  |                                               |         |                                           |             |                          | \$<br>\$      | 0.00                    |              |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable) +  TOTAL OF ABOVE CALCULATIONS =                                                                                                    |                                                                               |  |                                               |         |                                           |             |                          | \$            | 1,280.00                |              |
| Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.                                                                                             |                                                                               |  |                                               |         |                                           |             |                          | \$            | 1,200.00                |              |
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          | _             | 1 200 00                |              |
| SUBTOTAL =  Processing fee of \$130.00 for furnishing the English translation later than 30 months                                                                              |                                                                               |  |                                               |         |                                           |             |                          | \$            | 1,280.00                | <u> </u>     |
| from the earliest claimed priority date (37 CFR 1.492 (f)).                                                                                                                     |                                                                               |  |                                               |         |                                           |             |                          | \$            |                         |              |
| TOTAL NATIONAL FEE =                                                                                                                                                            |                                                                               |  |                                               |         |                                           |             |                          | \$            | 1,280.00                |              |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be                                                                                             |                                                                               |  |                                               |         |                                           |             |                          | \$            |                         |              |
| accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property                                                                                             |                                                                               |  |                                               |         |                                           |             |                          | ┺             | 4 200 00                |              |
| TOTAL FEES ENCLOSED =                                                                                                                                                           |                                                                               |  |                                               |         |                                           |             |                          | \$            | 1,280.00<br>mount to be | ı            |
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          |               | funded:                 | \$           |
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          |               | mount to be             | \$           |
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          |               | narged:                 | l            |
| a. x A check in the amount of \$ 1,280.00 to cover the above fees is enclosed.                                                                                                  |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| b. Please charge my Deposit Account No. in the amount of \$                                                                                                                     |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| to cover the above fees. A duplicate copy of this sheet is enclosed.                                                                                                            |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| c. x The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any                                                                   |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| overpayment to Deposit Account No. 02-2448 . A duplicate copy of this sheet is enclosed.                                                                                        |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card                                                                    |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| information should not be included on this form. Provide credit card information and authorization on PTO-2038.                                                                 |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (\$7 CFR 1/437 (a) or (b))                                                      |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| must be filed and granted to restore the International Application to pending status                                                                                            |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| SEND ALL CORRESPONDENCE TO:                                                                                                                                                     |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| / , lusienature! //                                                                                                                                                             |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
| CUSTOMER NUMBER: 02292 May 19, 2005 NAME                                                                                                                                        |                                                                               |  |                                               |         |                                           |             |                          |               | Gorenstein              |              |
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          |               | 271                     | İ            |
| /5IIIL                                                                                                                                                                          |                                                                               |  |                                               |         |                                           | REGIS       | STRATION N               |               | ,271<br>BER             |              |
|                                                                                                                                                                                 |                                                                               |  |                                               |         |                                           |             |                          |               |                         |              |